

## Subject index

Acatalasaemia cells 747  
 Acetyl CoA carboxylase 754  
 Acne vulgaris 214  
 Actinic keratosis 649  
 Adult T-cell leukaemia-derived factor 498  
 Aging 434  
 Allergic contact dermatitis 567  
 Alloantigen-presenting activity 627  
 Amino acid sequence pso27 761  
 Aminolevulinic acid 665  
 Animal model 567  
 Anogenital infection 608  
 Anti-allergic drugs 506  
 - -fibrotic drugs 506  
 - -hypertensive drugs 506  
 Antigen 503  
 - CD analysis 28  
 Antioxidant enzymes 747  
 Apocrine glands 764  
 Apoptosis 315, 498  
 Arrector pili muscle 599  
 Ascorbic acid 310  
 Atopic dermatitis 42, 48, 712  
 Atopy 129  
 Autoantibodies 581  
 Autoradiography 294

Bacterial superantigen 443  
 Barrier disruption 691  
 - function 221, 254  
 Basal cell carcinoma 512, 665  
 Basement membrane 2  
 $\beta_2$ -Integrins 695  
 Biochemistry 266  
 Biopsy specimens 572  
 Blister fluid 434  
 5-Bromo-2-deoxyuridine 480  
 Bulge 279, 599  
 Bullous congenital ichthyosiform erythroderma 705

C57BL/6 687  
 c-kit Antibodies 242  
 Café-au-lait macules 413  
 Calmodulin 326  
 Canine 186  
 Cathepsins B, H, L and D 266  
 - - -like enzyme activity 209  
 CD1<sup>+</sup> dendritic cells 553  
 CD23 712  
 CD48 524  
 Cell culture 731  
 - differentiation 480  
 - kinetics 480  
 Cellular infiltrate 129  
 Ceramides 214, 691  
 Chinese medicinal herbs 506  
 Cholesterol 691  
 - synthesis 754  
 Chromosome aberration 42  
 Cicatricial IgA pemphigoid 636  
 Class II major histocompatibility complex 186  
 Collagen 176, 506, 534

- propeptides 171  
 - synthesis 747  
 Collagenase 428, 659  
 Complement receptors 225  
 Confocal laser scanning microscopy 465, 517  
 Connective tissue 115  
 Contact dermatitis 129  
 - hypersensitivity 123, 564  
 - sensitization 567  
 Comeocytes 221, 222  
 Cottontail rabbits 652  
 CRABP 488  
 Cross sectional area (CSA) 222  
 CsA 304  
 Cutaneous lymphoma 186  
 - malignant melanoma 13  
 - T-cell lymphoma 97, 621  
 Cysteine proteinase inhibitor 209  
 Cytokines 61, 72, 85, 115, 231, 259, 572, 680, 764

Decorin 417  
 Delayed pressure urticaria 285  
 Deletion 641  
 Dendritic cells 273  
 Dermal fibroblasts 539  
 - -epidermal interaction 659  
 - - junction 699  
 Dermatan sulphate 417  
 Dermatology 10  
 Dermis 279  
 Desmosomes 457  
 Desquamation 457  
 Development 294  
 Diffusion pathways 465  
 Disease-free interval 209  
 DNA content 718  
 Dogs 186  
 Dystrophic EB 428

ECM macromolecules 659  
 ECP 180  
 Elastase activity 632  
 Elastin 494  
 Elastolytic enzymes 152  
 Endothelin 439  
 Eosinophils 180, 712  
 Epidermal differentiation 517  
 - hyperplasia 675  
 - Langerhans cell 36  
 - malignancies 237  
 - pentapeptide 735  
 - permeability barrier 254  
 Epidermis 68, 249, 279, 294, 465, 735  
 - reconstruction (in vitro) 465  
 Epidermolysis bullosa 2, 16  
 - - simplex 142  
 Epitheliotropism 186  
 EPR 687  
 Epstein-Barr virus 608  
 Erythrocytes 225  
 Essential fatty acid deficiency 254  
 Extracorporeal photopheresis 48, 621

Fas antigen 315  
 Fatty acid oxidation 723  
 - - synthesis 754  
 Fc Receptors 225  
 Fc $\epsilon$ RI 242, 712  
 Fc $\epsilon$ RII 180  
 Fetuses 529  
 Fibroblasts 115, 338  
 Fibronectin 176  
 Fibrosis 534  
 FK506 304, 558  
 Flow cytometry 198  
 Free fatty acids 691

Gamma/delta T cells 137  
 Gene expression 115  
 - mutations 16  
 - regulation 421, 534  
 Genotraumatic T cells 97  
 Glucocorticoid 434  
 Glycoprotein antigen expression 591  
 Granulocyte macrophage colony-stimulating factor 158  
 Growth factors 78  
 - regulation 735

Hair 294  
 - cycle 687  
 - - regulation 683  
 - follicle 279, 591  
 Hairless mouse 488  
 Heat shock proteins 68  
 Heavy metals 137  
 Heritable skin diseases 16  
 Hidradenitis 764  
 Histological score 553  
 Histology 53  
 Historical development 10  
 History 23  
 HIV infection 608  
 HLA-DR 546  
 HMG CoA reductase 754  
 hsp73 581  
 Human epidermis 72  
 - immunodeficiency virus (HIV) 36  
 - keratinocytes 723  
 - malignant melanoma 209  
 - papillomavirus 649  
 - skin 137  
 - - (experimental model) 237  
 Hybridization technique in situ 612  
 Hydration 474  
 Hypertrophic scars 289

ICAM-1 165, 249, 546  
 IgE 129, 242, 712  
 IL-6 731  
 Immune complex 225  
 - neuroendocrine network 85  
 Immunoblot assay 202  
 Immunodermatology 23  
 Immunoelectron microscopy 636  
 Immunoglobulin conjugates 123

## Subject index

Acatalasaemia cells 747  
 Acetyl CoA carboxylase 754  
 Acne vulgaris 214  
 Actinic keratosis 649  
 Adult T-cell leukaemia-derived factor 498  
 Aging 434  
 Allergic contact dermatitis 567  
 Alloantigen-presenting activity 627  
 Amino acid sequence pso27 761  
 Aminolevulinic acid 665  
 Animal model 567  
 Anogenital infection 608  
 Anti-allergic drugs 506  
 - -fibrotic drugs 506  
 - -hypertensive drugs 506  
 Antigen 503  
 - CD analysis 28  
 Antioxidant enzymes 747  
 Apocrine glands 764  
 Apoptosis 315, 498  
 Arrector pili muscle 599  
 Ascorbic acid 310  
 Atopic dermatitis 42, 48, 712  
 Atopy 129  
 Autoantibodies 581  
 Autoradiography 294

Bacterial superantigen 443  
 Barrier disruption 691  
 - function 221, 254  
 Basal cell carcinoma 512, 665  
 Basement membrane 2  
 $\beta_2$ -Integrins 695  
 Biochemistry 266  
 Biopsy specimens 572  
 Blister fluid 434  
 5-Bromo-2-deoxyuridine 480  
 Bulge 279, 599  
 Bullous congenital ichthyosiform erythroderma 705

C57BL/6 687  
 c-kit Antibodies 242  
 Café-au-lait macules 413  
 Calmodulin 326  
 Canine 186  
 Cathepsins B, H, L and D 266  
 - - -like enzyme activity 209  
 CD1<sup>+</sup> dendritic cells 553  
 CD23 712  
 CD48 524  
 Cell culture 731  
 - differentiation 480  
 - kinetics 480  
 Cellular infiltrate 129  
 Ceramides 214, 691  
 Chinese medicinal herbs 506  
 Cholesterol 691  
 - synthesis 754  
 Chromosome aberration 42  
 Cicatricial IgA pemphigoid 636  
 Class II major histocompatibility complex 186  
 Collagen 176, 506, 534

- propeptides 171  
 - synthesis 747  
 Collagenase 428, 659  
 Complement receptors 225  
 Confocal laser scanning microscopy 465, 517  
 Connective tissue 115  
 Contact dermatitis 129  
 - hypersensitivity 123, 564  
 - sensitization 567  
 Comeocytes 221, 222  
 Cottontail rabbits 652  
 CRABP 488  
 Cross sectional area (CSA) 222  
 CsA 304  
 Cutaneous lymphoma 186  
 - malignant melanoma 13  
 - T-cell lymphoma 97, 621  
 Cysteine proteinase inhibitor 209  
 Cytokines 61, 72, 85, 115, 231, 259, 572, 680, 764

Decorin 417  
 Delayed pressure urticaria 285  
 Deletion 641  
 Dendritic cells 273  
 Dermal fibroblasts 539  
 - -epidermal interaction 659  
 - - junction 699  
 Dermatan sulphate 417  
 Dermatology 10  
 Dermis 279  
 Desmosomes 457  
 Desquamation 457  
 Development 294  
 Diffusion pathways 465  
 Disease-free interval 209  
 DNA content 718  
 Dogs 186  
 Dystrophic EB 428

ECM macromolecules 659  
 ECP 180  
 Elastase activity 632  
 Elastin 494  
 Elastolytic enzymes 152  
 Endothelin 439  
 Eosinophils 180, 712  
 Epidermal differentiation 517  
 - hyperplasia 675  
 - Langerhans cell 36  
 - malignancies 237  
 - pentapeptide 735  
 - permeability barrier 254  
 Epidermis 68, 249, 279, 294, 465, 735  
 - reconstruction (in vitro) 465  
 Epidermolysis bullosa 2, 16  
 - - simplex 142  
 Epitheliotropism 186  
 EPR 687  
 Epstein-Barr virus 608  
 Erythrocytes 225  
 Essential fatty acid deficiency 254  
 Extracorporeal photopheresis 48, 621

Fas antigen 315  
 Fatty acid oxidation 723  
 - - synthesis 754  
 Fc Receptors 225  
 Fc $\epsilon$ RI 242, 712  
 Fc $\epsilon$ RII 180  
 Fetuses 529  
 Fibroblasts 115, 338  
 Fibronectin 176  
 Fibrosis 534  
 FK506 304, 558  
 Flow cytometry 198  
 Free fatty acids 691

Gamma/delta T cells 137  
 Gene expression 115  
 - mutations 16  
 - regulation 421, 534  
 Genotraumatic T cells 97  
 Glucocorticoid 434  
 Glycoprotein antigen expression 591  
 Granulocyte macrophage colony-stimulating factor 158  
 Growth factors 78  
 - regulation 735

Hair 294  
 - cycle 687  
 - - regulation 683  
 - follicle 279, 591  
 Hairless mouse 488  
 Heat shock proteins 68  
 Heavy metals 137  
 Heritable skin diseases 16  
 Hidradenitis 764  
 Histological score 553  
 Histology 53  
 Historical development 10  
 History 23  
 HIV infection 608  
 HLA-DR 546  
 HMG CoA reductase 754  
 hsp73 581  
 Human epidermis 72  
 - immunodeficiency virus (HIV) 36  
 - keratinocytes 723  
 - malignant melanoma 209  
 - papillomavirus 649  
 - skin 137  
 - - (experimental model) 237  
 Hybridization technique in situ 612  
 Hydration 474  
 Hypertrophic scars 289

ICAM-1 165, 249, 546  
 IgE 129, 242, 712  
 IL-6 731  
 Immune complex 225  
 - neuroendocrine network 85  
 Immunoblot assay 202  
 Immunodermatology 23  
 Immunoelectron microscopy 636  
 Immunoglobulin conjugates 123

Immunohistochemistry 28, 146, 237, 266, 480, 553  
 Immunology 165  
 Immunomagnetic beads 627  
 Immunosuppression 558  
*In situ* hybridization 649  
 - *vitro* cell-free HIV infection 36  
 Indirect immunofluorescence assay 202  
 Inflammation 61, 503, 680, 761  
 Inflammatory cytokines 158  
 Integrins 249  
 Intercellular adhesion molecule-1 (ICAM-1) 186  
 Interferon gamma 546  
 Interleukins 259  
 - -1 158  
 - -2 193  
 - -2/-4 123  
 - -4 193  
 - -6 158, 193  
 Intralesional steroids 289  
 Involucrin 705, 740  
 Irritancy testing (*in vitro*) 249  
 Irritant 474  
 Isotretinoin 434

Junctional epidermolysis bullosa 699

Kalinin 2  
 Keloids 289  
 Keratin 2, 142  
 Keratinocytes 186, 231, 249, 304, 315, 321, 341, 500, 509, 539, 731  
 - differentiation 68  
 - populations 591  
 - derived squamous cell carcinoma 91  
 Koebner phenomenon 165

LABD antigen 636  
 Langerhans cells 129, 242, 273, 524  
 Laser Doppler flowmetry 564  
 Leukocyte proliferation 652  
 LFA-1 186  
 - -3 524  
 Limiting transcriptional intermediary factor 740  
 Lipids 723  
 - peroxidation 747  
 Local lymph-node assay 567  
 Localized scleroderma 193, 417, 581  
 Loricrin 705  
 Lupus erythematosus 23, 558  
 Lymphocytes 176, 186, 572

Malignant melanoma 421, 452, 509  
 Mast cells 61, 78, 198, 500, 503, 683, 695  
 - - differentiation 242  
 - - growth 91  
 MBP 180  
 Melanin 687  
 Melanocytes 78, 259, 509, 529  
 - culture 413  
 Melanocytic naevus 509  
 - tumour 266  
 Melanoma 333, 718  
 - pathology 28  
 - prognosis 146  
 Metabolism 53  
 Metastasis 452, 512  
 Methotrexate 326

Mid-dermal elastolysis 152  
 Minoxidil 494  
 Mitochondrial DNA 641  
 Mixed cell reaction 627  
 - epidermal cell lymphocyte reaction 627  
 MMP-2 434  
 - -9 434  
 Moisturizer 474  
 Molluscum bodies 102  
 - contagiosum 102  
*Monodelphis domestica* 333  
 Mortality 13  
 Mouse CD2 524  
 - skin 558  
 MRL mouse 558  
 Murine skin 683, 687  
 Mutations 142  
 Mycosis fungoides 97, 186

*N*-acetylation 341  
 Naevus 452  
 Neoplastic cells 237  
 Neurofibromatosis type 1 (NF1) 413  
 New monoclonal antibody 273  
 NF1 Gene 413  
 Nicin 2, 699  
 NIH/3T3 fibroblasts 91  
 Noncollagenous protein 310  
 Nonresponsiveness 123  
 NU-T2 monoclonal antibody 699

12-O-Tetradecanoylphorbol-13-acetate (TPA) 517  
 Outer hair sheath 294  
 22-Oxacalcitriol 294

Papillomavirus 612, 652  
 PASA method 142  
 PCR 142  
 Pemphigus vulgaris 202  
 Peptide T 553  
 Peroxidation 338  
 Peroxides 321  
 Phagocytosis 152  
 Pharmacology 53  
 Photoageing 641  
 Photodynamic DNA breaking 586  
 - therapy 665  
 Photosensitivity disorders 586  
 PKC 304  
 Plasma fibronectin 219  
 Polymerase chain reaction 72, 608, 641, 649  
 Proliferation 231, 509  
 Proopiomelanocortin 85  
 Prostaglandin E<sub>1</sub> 539  
 - I<sub>1</sub> analogues 539  
 Protease 61  
 Protein tyrosin kinase 304  
 Protoporphyrin IX 665  
 Pruritus 572  
 pso p 27 503  
 Psoriasis 68, 158, 165, 171, 176, 219, 225, 231, 443, 503, 546, 632, 731  
 - associated antigen 761  
 Pulse labelling 480

RAR 488  
 Rats 294  
 Raynaud's disease 439

Reactive oxygen species 338  
 Receptors 53  
 Retinoic acid 53, 488, 675  
 Rhino mouse 488

Scanning electron microscopy 599  
 SCID mouse 237  
 Seborrhoeic keratosis 612  
 Sebum secretion rate 214  
 Secretory component 546  
 Selenium 680  
 Serine-palmitoyl transferase 254, 754  
 Serum 434  
 Sézary's syndrome 97  
 Skin 294, 500, 675  
 - culture 222  
 - diseases 10  
 - elasticity 289  
 - equivalent 659  
 - fibroblasts 310, 417, 494  
 - immune system 23  
 - injury 498  
 - lesions 333  
 - viscosity 289  
 Sodium dodecyl sulphate (SDS) 249  
 - lauryl sulphate 474  
 Spa water 680  
 Sphingolipid synthesis 254, 754  
 Sphingosine 214  
 Spleen 333  
 Split skin 636  
 Spongiosis 572  
 SPRR1 705  
 Squamous cell carcinoma 512  
 Stem cells 279, 599  
 - - factor 78  
 Stratum corneum 221, 457, 465, 474  
 Stress protein 581  
 Stromelysin 428  
 Strontium 680  
 Structure-activity model 567  
 Substance P 500  
 Sunburn cell 498  
 Survival prognosis 718  
 Susceptibility 333  
 Systemic scleroderma 417  
 - sclerosis 439

T cell clones 42  
 - - activation 443  
 - - receptor 443  
 Tandem duplication 641  
 TEF-1 740  
 Terminal hair follicle 599  
 TGF $\alpha$  731  
 Thrombomodulin 439  
 Thymidine uptake 326  
 Tolerance 123  
 Toluidine blue staining 452  
 Topical corticosteroids 285  
 Transepidermal water loss 254, 675  
 Transforming growth factor- $\beta$ 1 198  
 Tricacylglycerol lipase 723  
 Trichohyalin 705  
 Triglycerides 723  
 Trinitrochlorobenzene 123  
 Tumour-infiltrating lymphocytes 28  
 Tumour necrosis factor 259  
 - - -  $\alpha$  (TNF- $\alpha$ ) 115  
 - prognosis 452  
 - suppressor gene p53 146

Type IV collagenase 512  
- VII collagen 2  
--- gene mutations 16  
Tyrosinase-negative oculocutaneous albinism 529

Ultraviolet A 338  
- B 341  
- irradiation 321

- radiation 333, 498  
Urea 474  
Urocanic acid 564  
Urticaria 180  
- pigmentosa 242  
UV irradiation 747  
UVB-irradiation 326

Venereology 10

Vitamin D 294

W-13 326  
Water barrier function 214  
Wound healing 534, 539

Xenografts 237

Zinc 735

